

Figure 1

106080-69022660

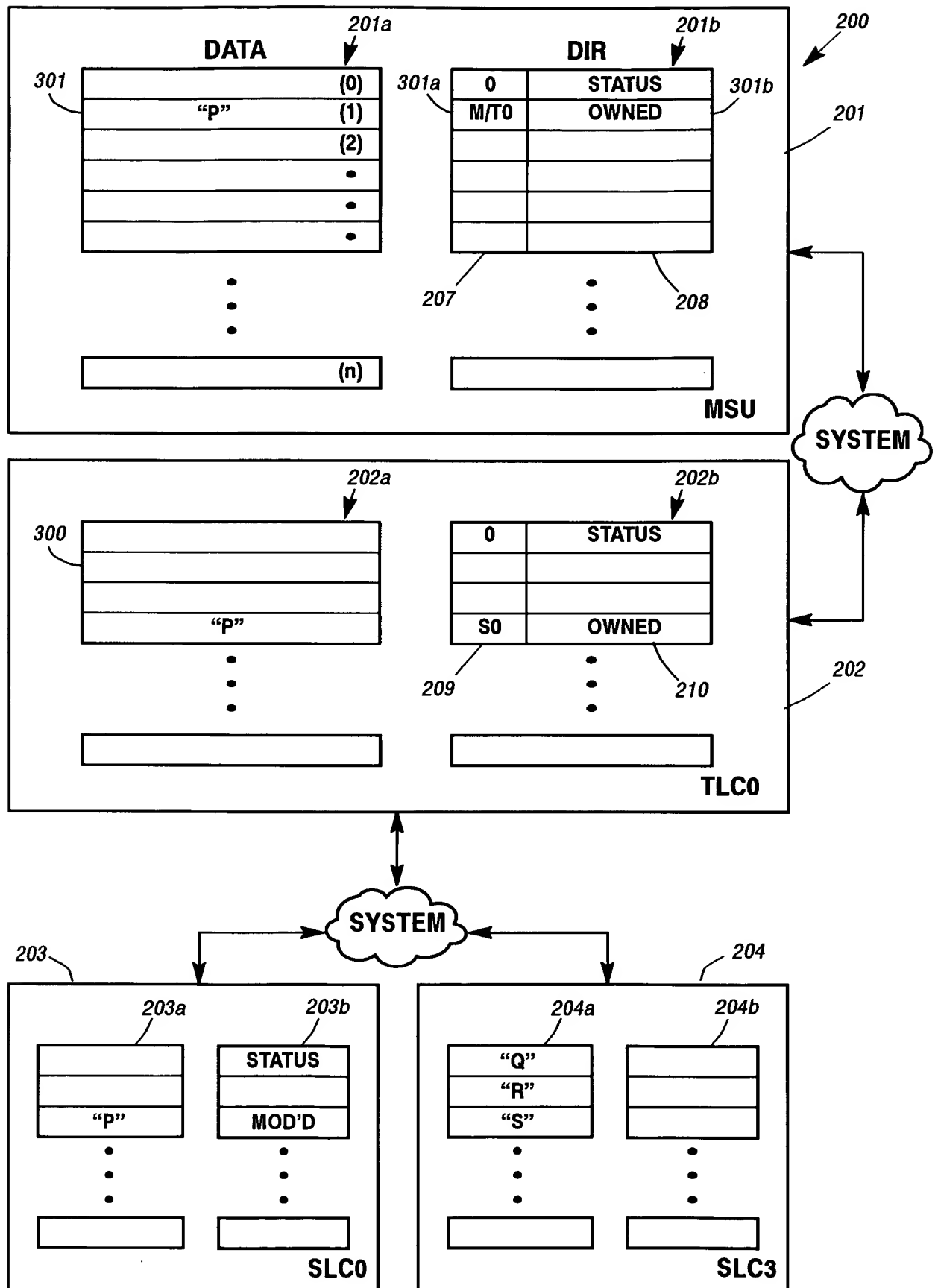


Figure 2

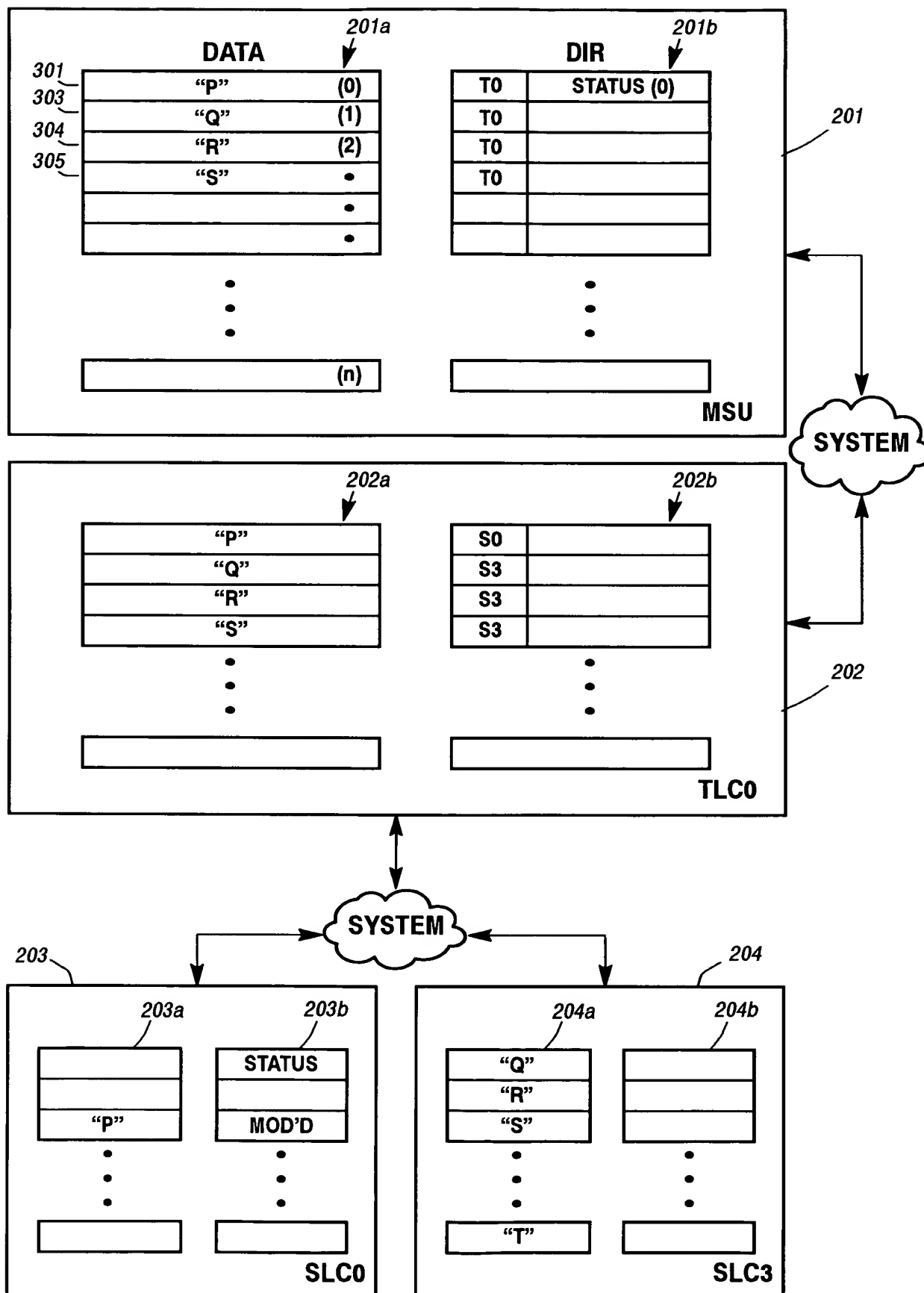


Figure 2A

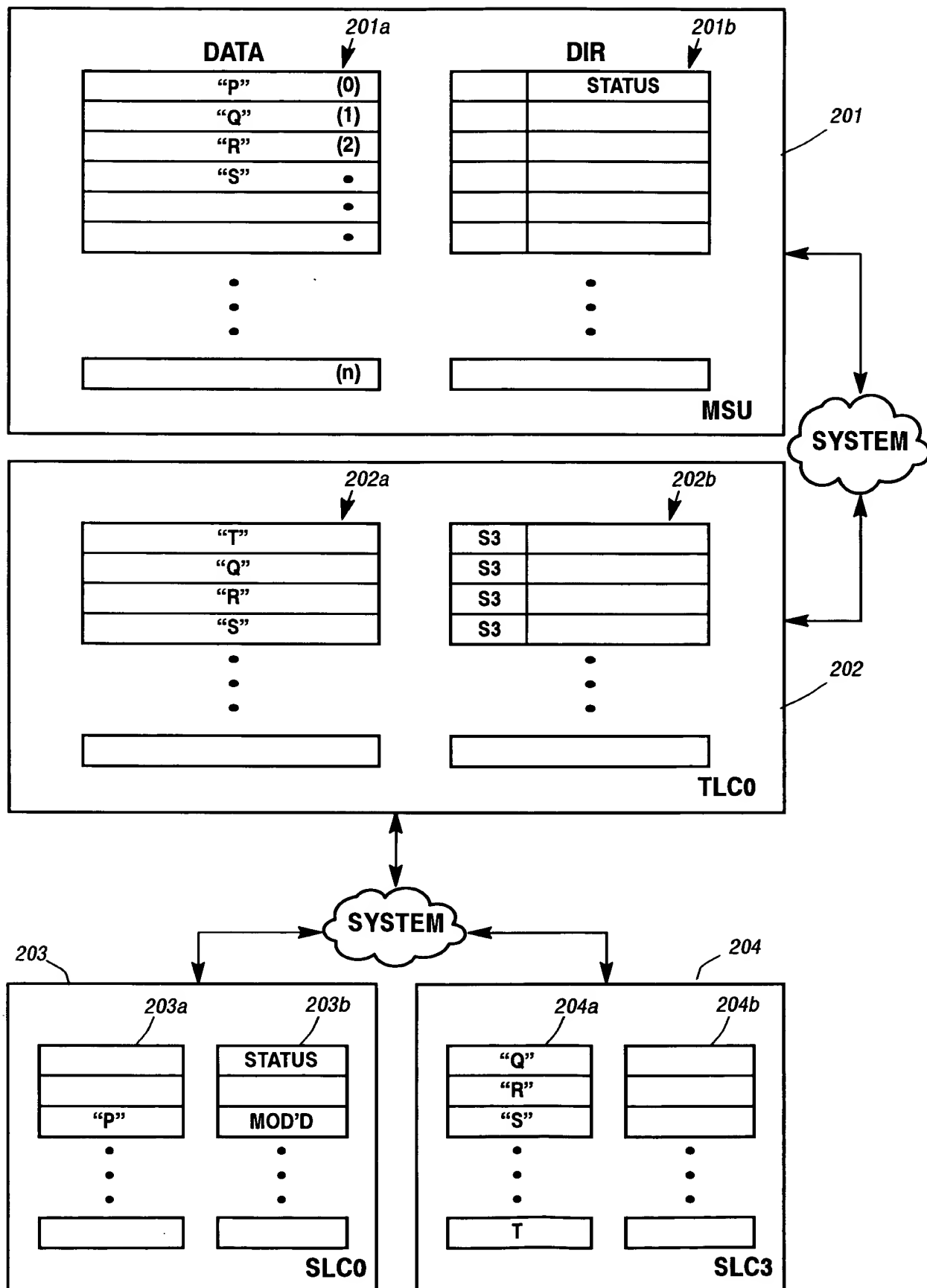


Figure 2B

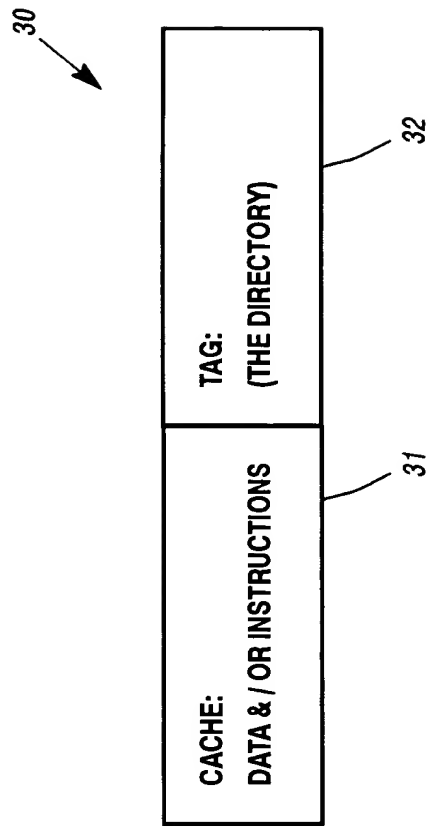


Figure 3

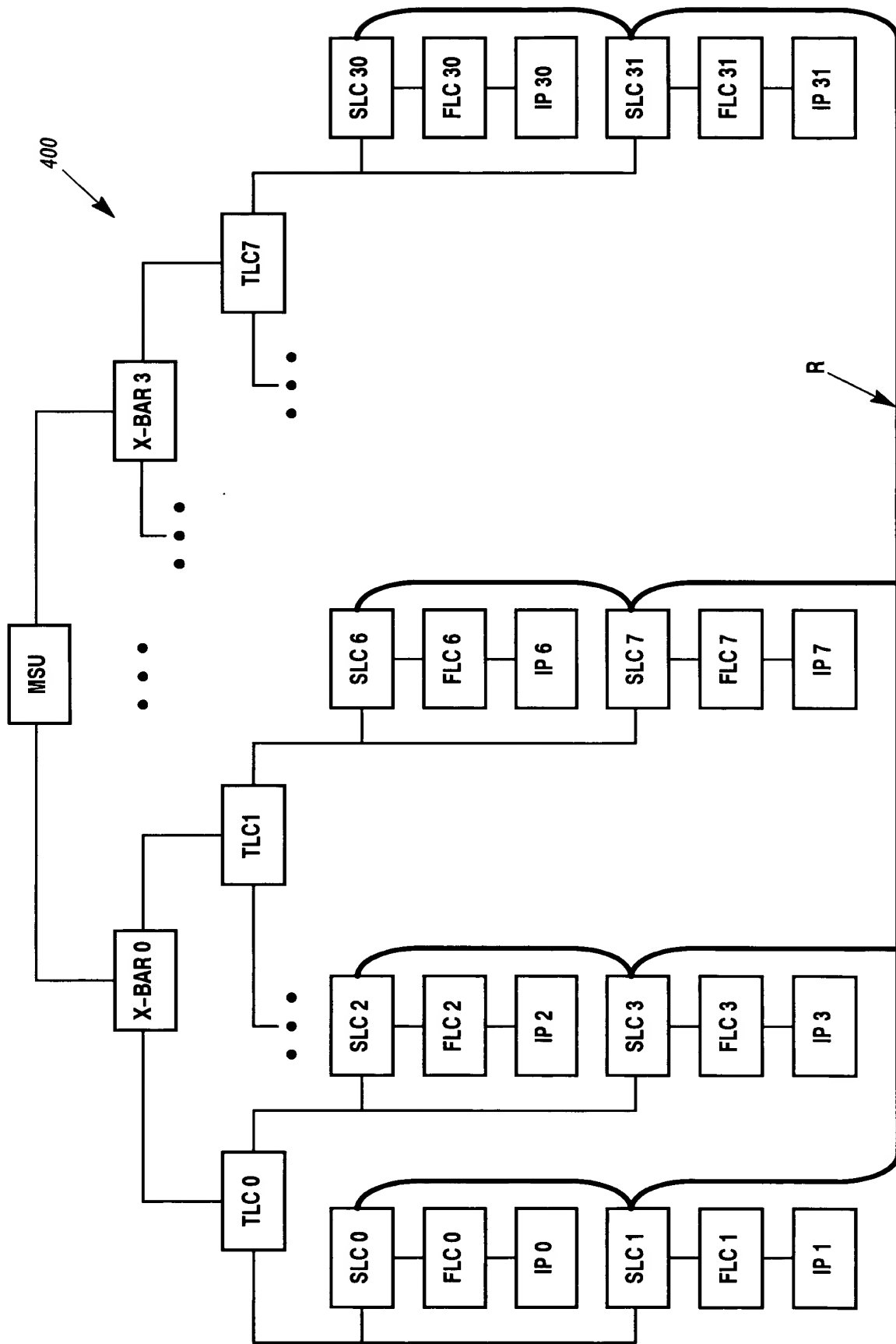


Figure 4

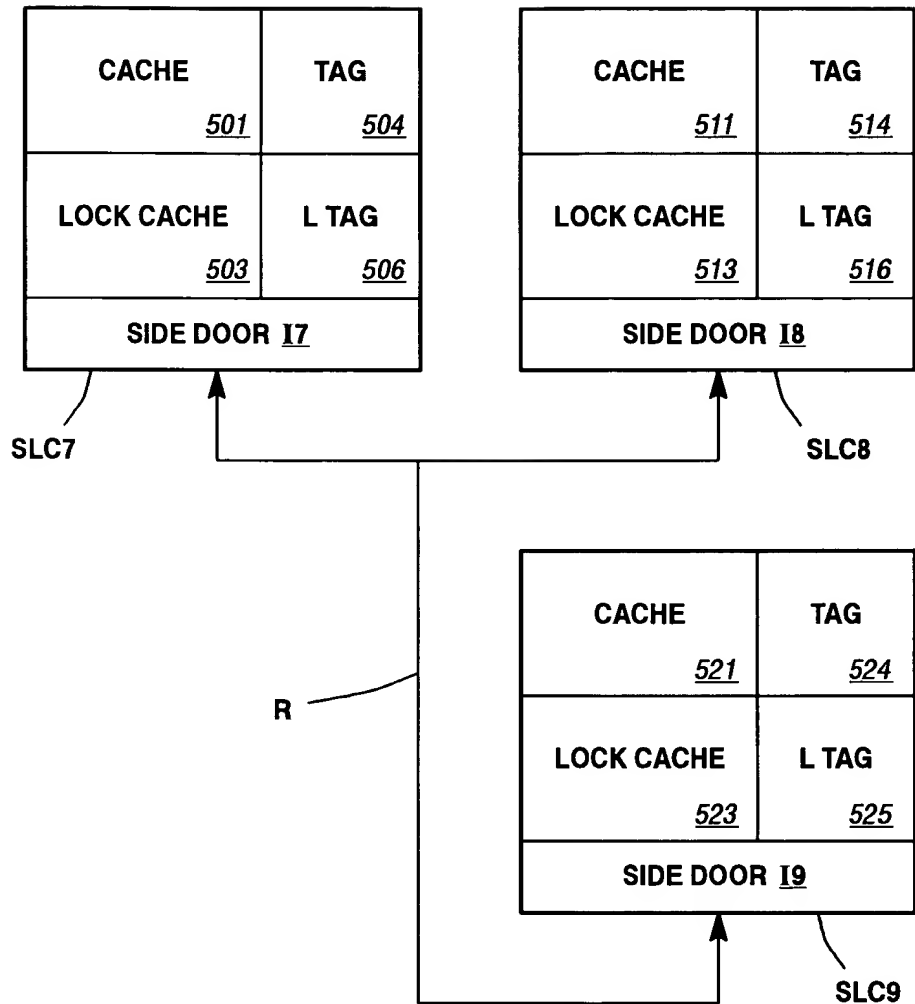


Figure 5

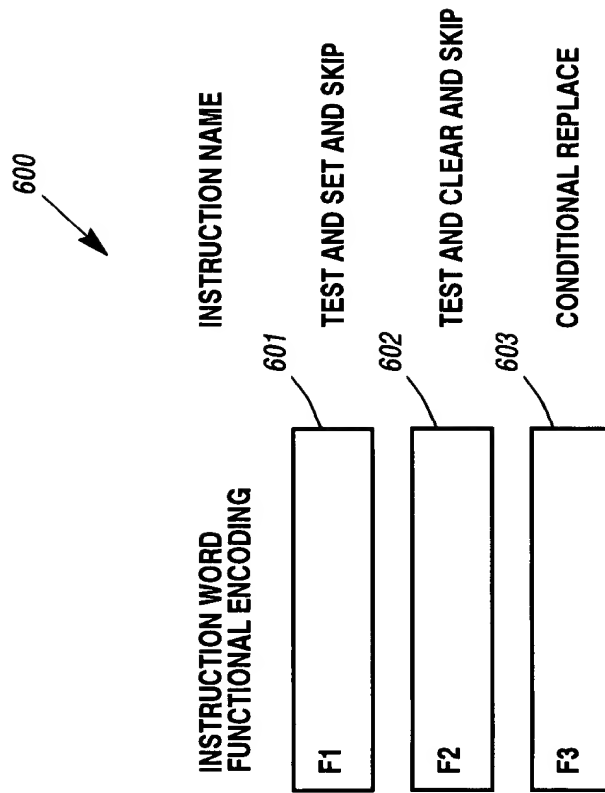


Figure 6
Lock Instructions

09927059.080901

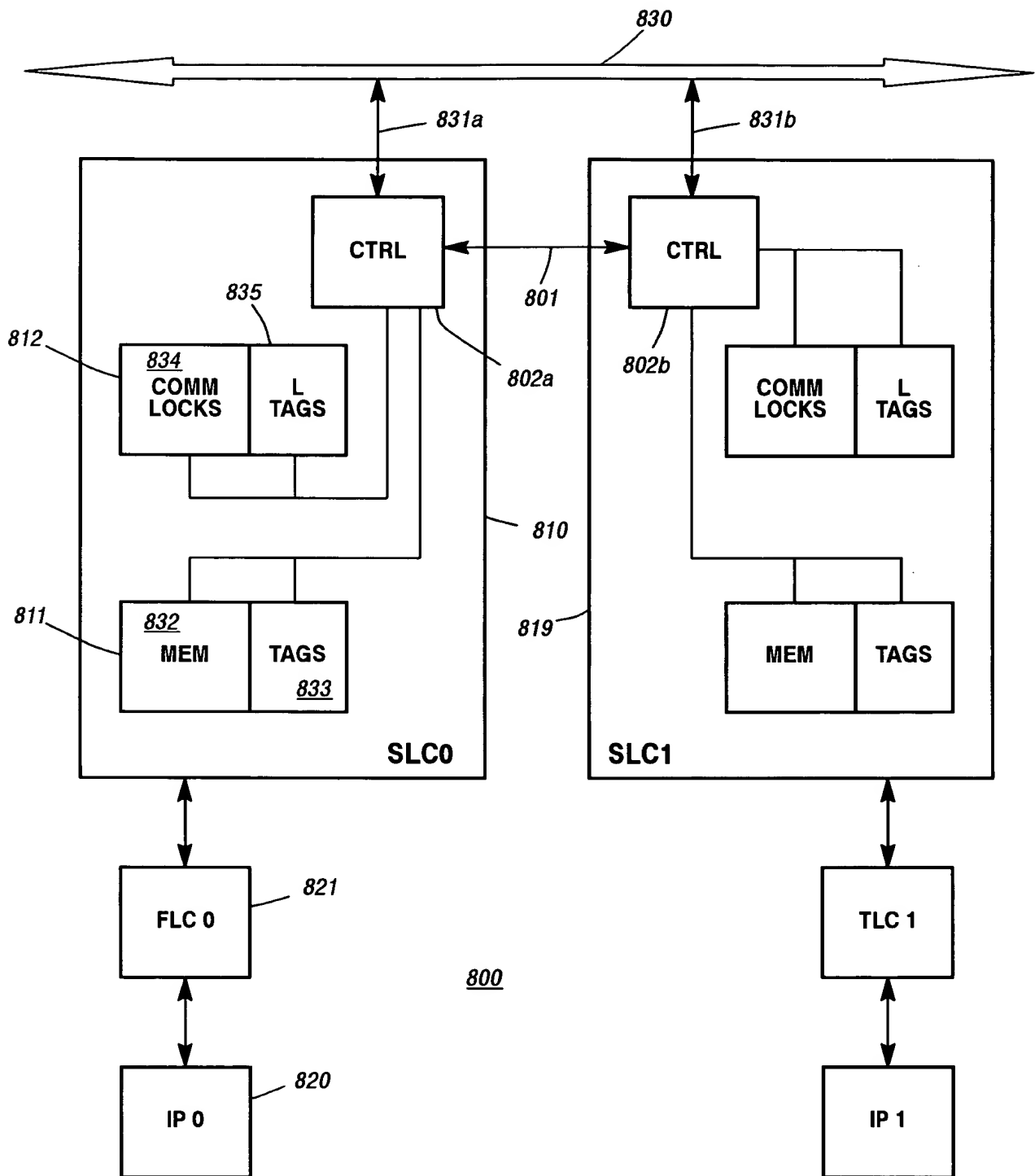


Figure 8A

09927069.08004

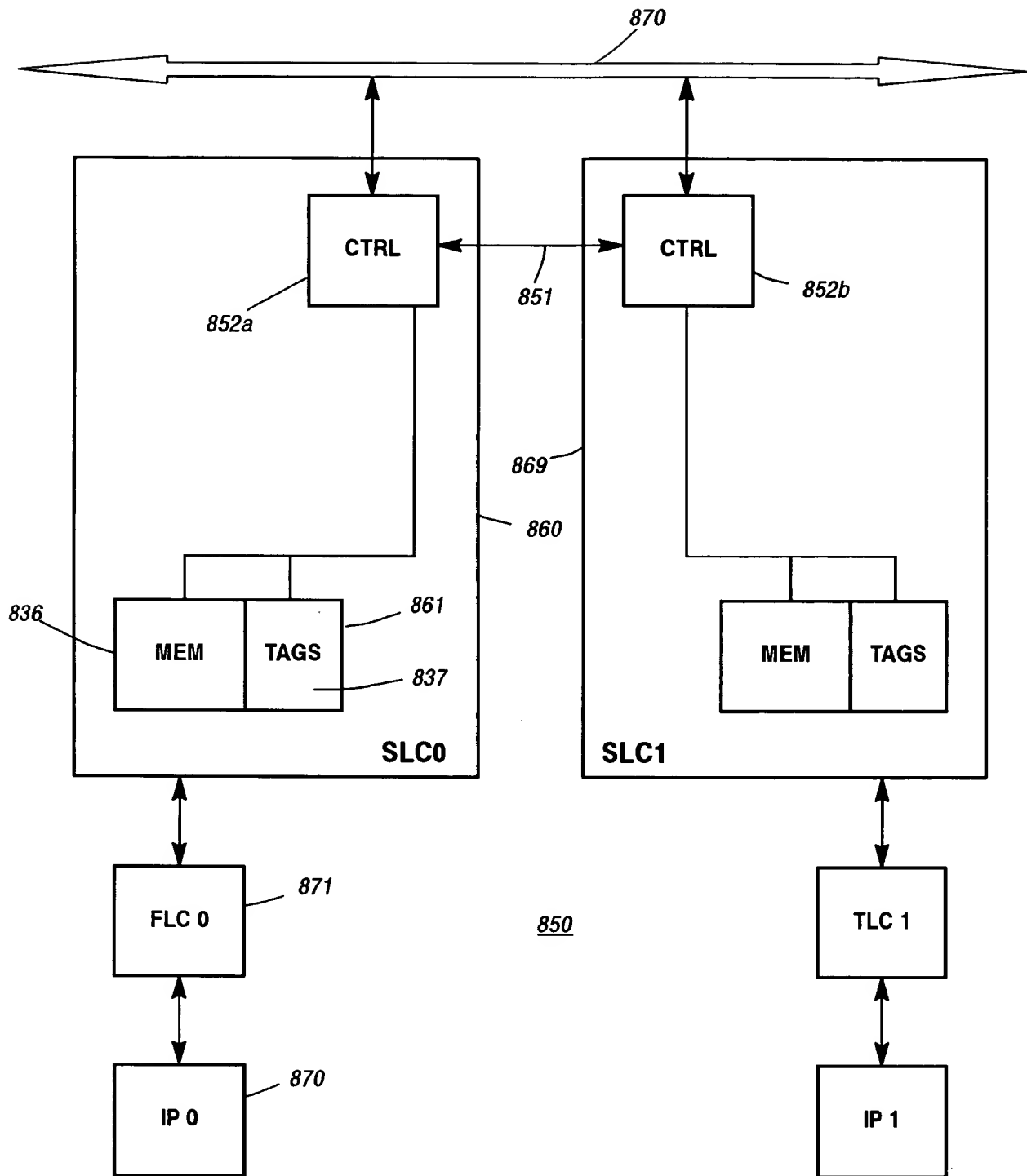


Figure 8B

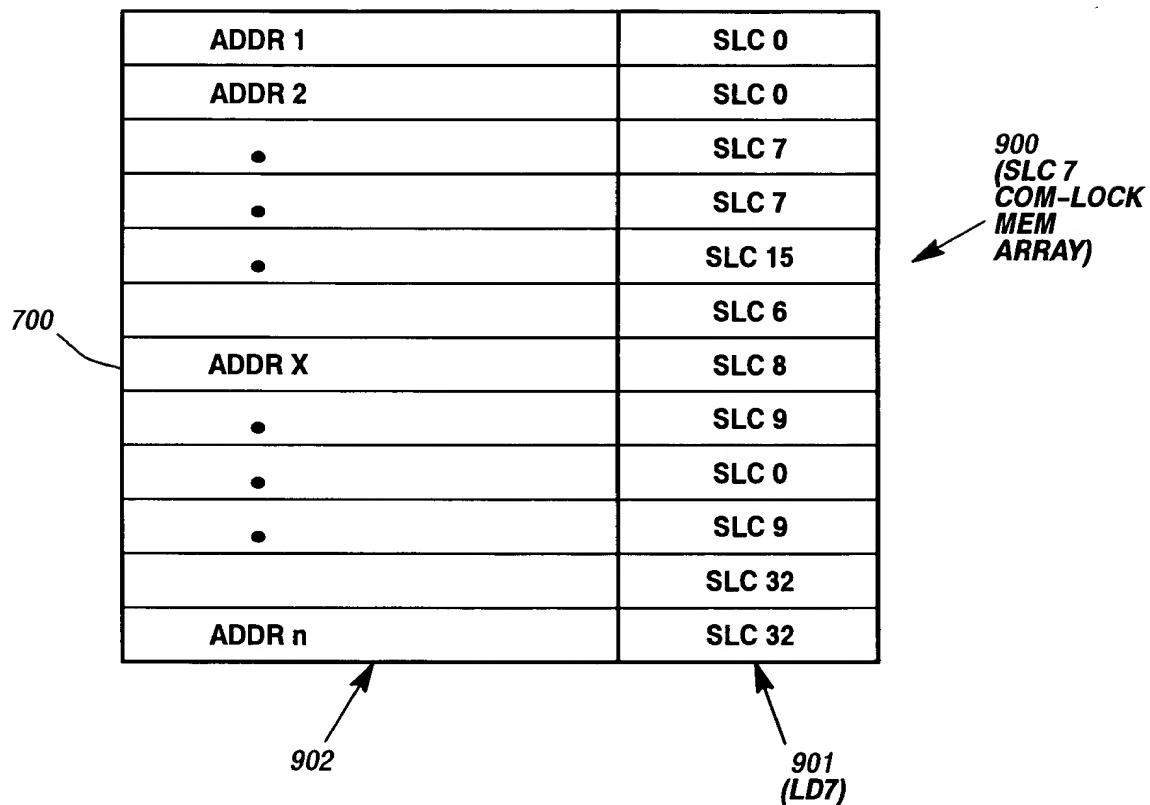


Figure 9

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graph TD
    START([START]) --> J1{SIDE DOOR REQUEST ?}
    J1 -- YES --> B((B))
    J1 -- NO --> J2{COMMUNAL LOCK FROM LOCAL IP ?}
    J2 -- YES --> C((C))
    J2 -- NO --> J3{REQUESTED LOCK CACHE LINE RECEIVED ?}
    J3 -- YES --> D((D))
    J3 -- NO --> J4{"ORDINARY" CACHING REQUEST RECEIVED ?}
    J4 -- YES --> H[HANDLE "ORDINARY" CACHING REQUEST]
    H --> A1((A))
    J4 -- NO --> A2((A))
    A1 --> START
    A2 --> START
    
```

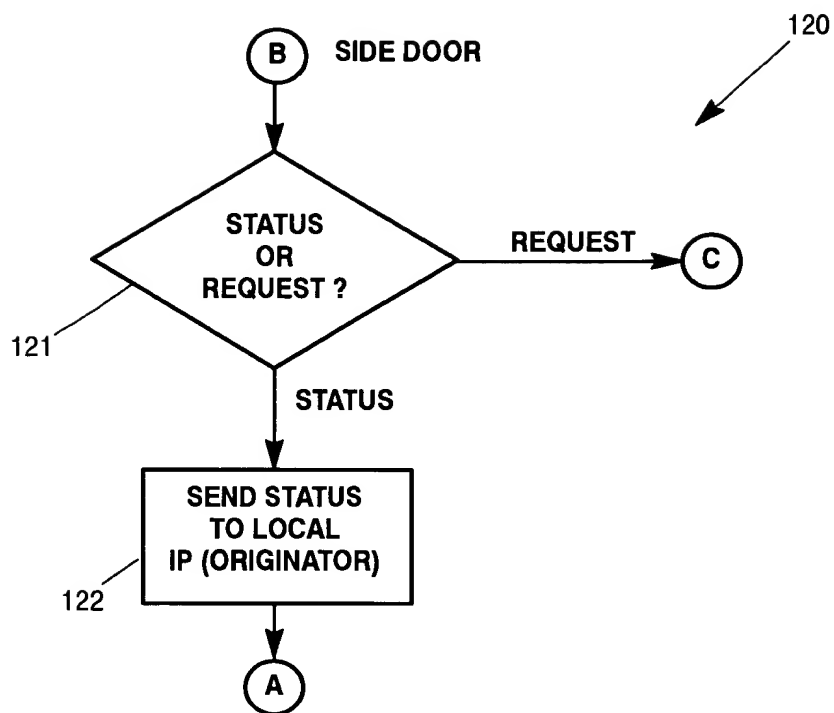


Figure 10B

09927059-080901

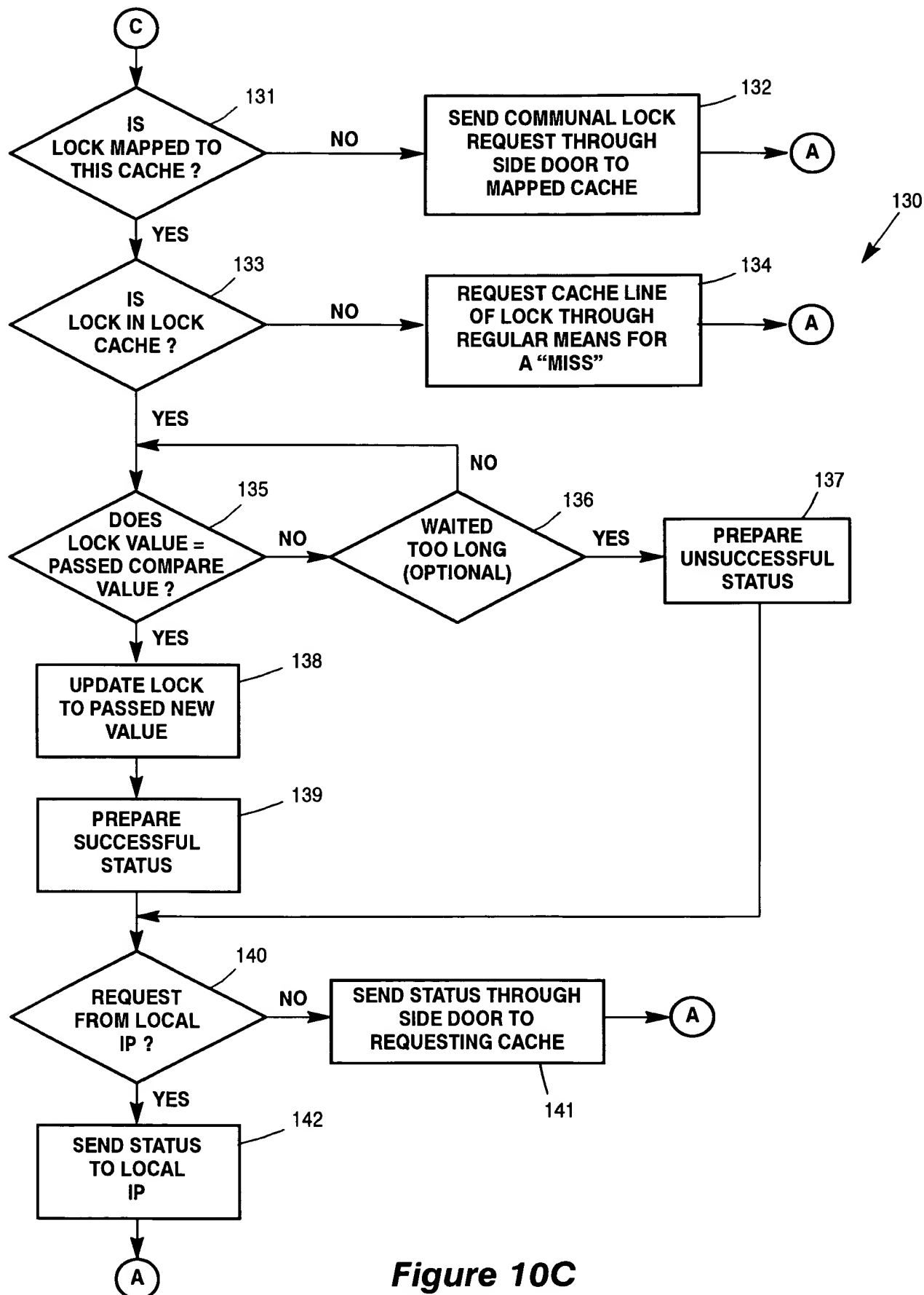


Figure 10C

09927069-080904

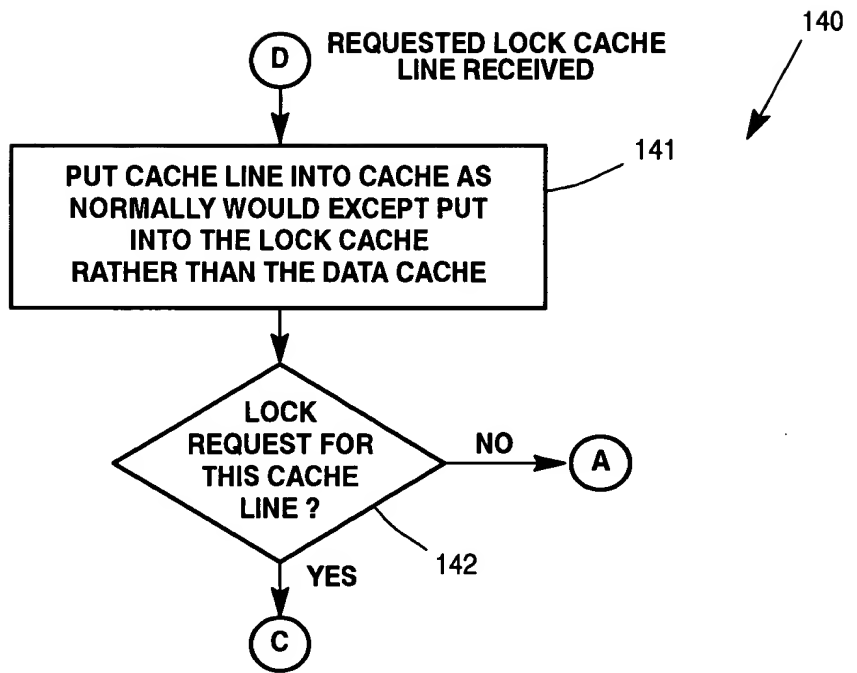


Figure 10D

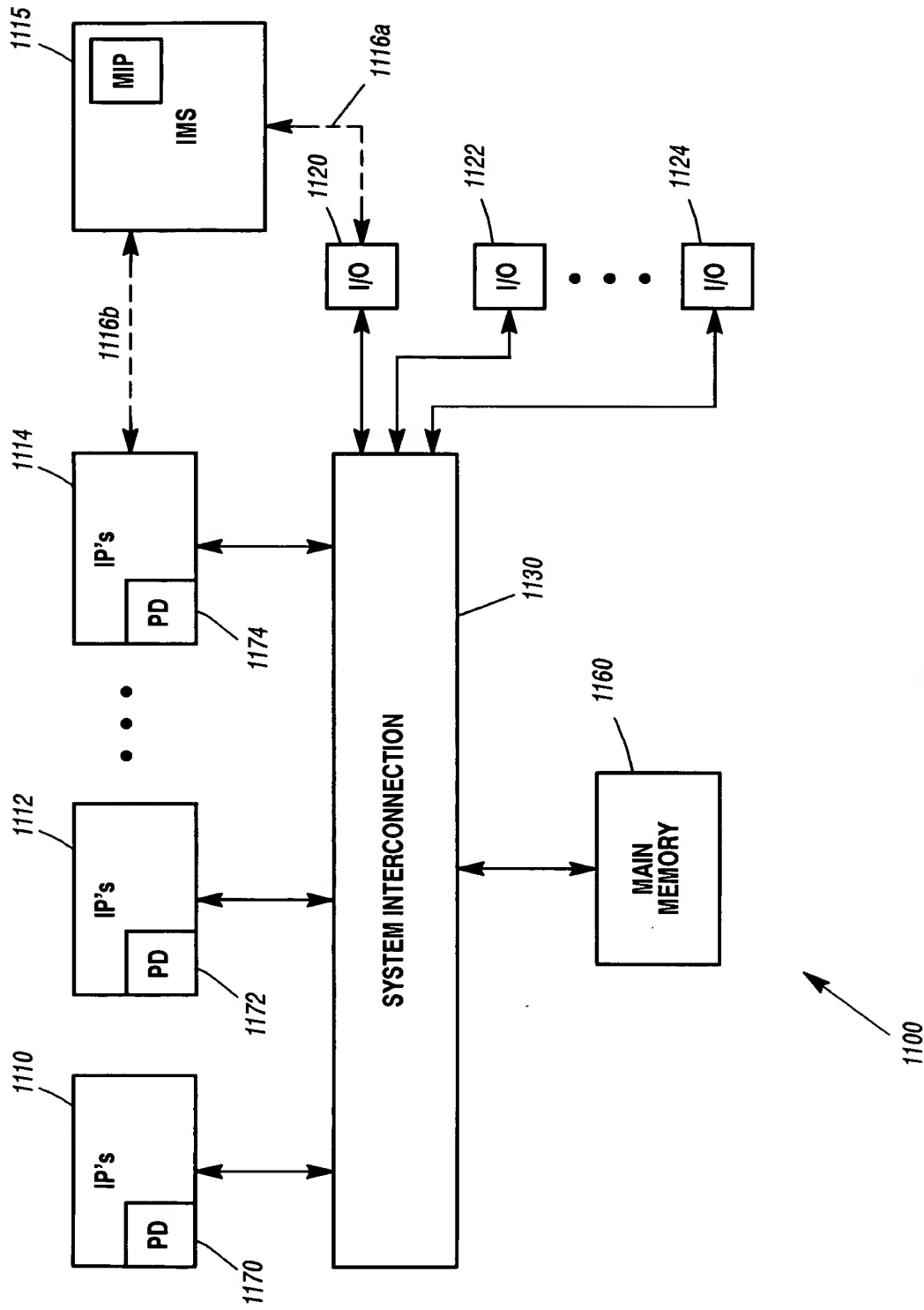
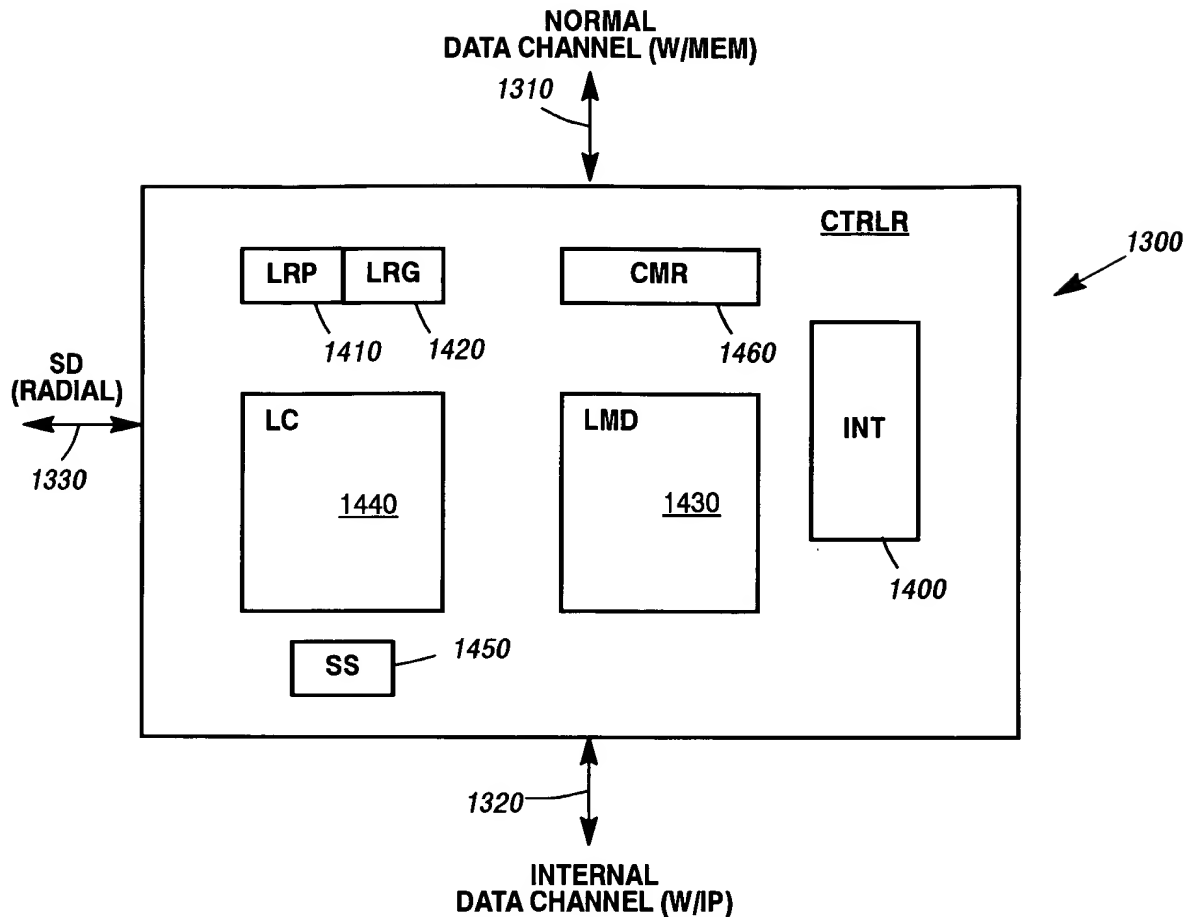


Figure 11



106080" 6902660



- LRG = LOCK REQ. GENERATOR - GENERATES / FORWARDS LOCK REQUEST IF LRP SAYS IT D/N HAVE IT.
- LRP = LOCK REQUEST (INSTRUCTION) PROCESSOR (HAS BIT CHANGER & CHECKS LMD & LC TO SEE IF (A) ITS HIS & (B) IF HE HAS IT)
- SD = SIDE DOOR (INCLUDES ID INFO PATH)
- CMR = COMPARITOR
- LMD = LOCK MAP DIRECTORY
- LC = LOCK CACHE
- INT = INTERPRETER (IS THIS A LOCK REQUEST? ELSE PASS THROUGH AS NORMAL DATA)
- SS = STATUS STRIPPER (SENDS BACK LOCK STATUS TO SIDE DOOR WHEN OPERATION COMPLETES IN RESP TO SIDE DOOR REQ)

Figure 13